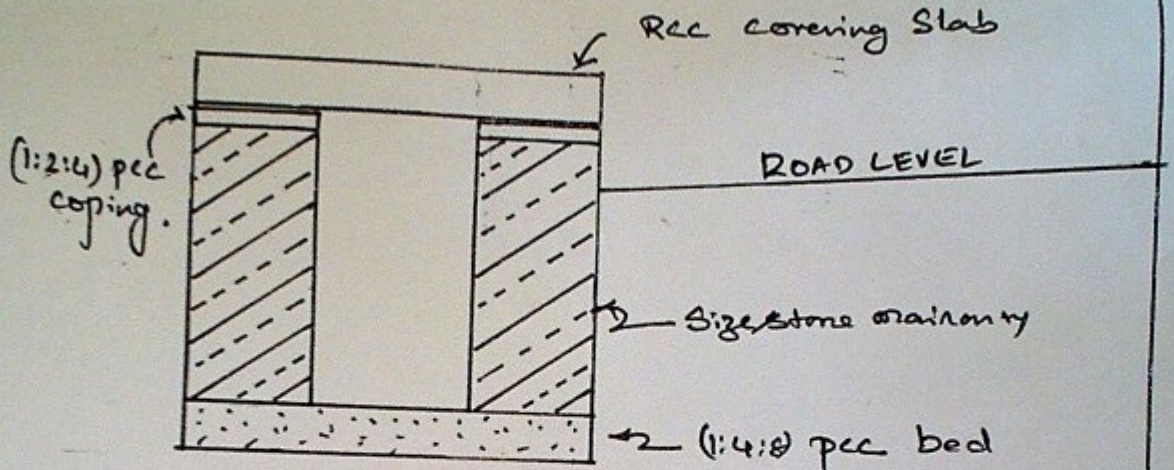

MAISONARY DRAIN.

AE&S

Asst. Executive Engineer
Hebbal Sub-Division
Queens Road
Bhruth Bangalore Mahanagara Palike
Bangalore - 52.

BRUHATH BENGALURU MAHANAGARA PALIKE

Name of the Work :- Construction of drain in 2nd main 3rd cross RMV Extension in Ward 18.

DETAILED ESTIMATE

Ward No.18 **Est. Cost Rs.15.00 Lakhs**

Sl. No		Description	Unit	No	L	B	D	Qnty	Rate	Amount
1		Dismantling of existing strutures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metrs complete as per specifications. i) Lime / Cement Concrete. I. By Manual Means : A. Lime Concrete, cement concrete grade M-10 and below. MORTH Specification No.202 Page No.147. I No.18.17 PWDSR - 2013-14								
		(BR+A/Wtg) (Rs.235.00+18.80)	Cum	2	180.00	0.45	0.60	97.20	253.80	24669.36
2		Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width, in ordinary soil not exceeding 1.5 m. in depth including sressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications. specification No. KBS 2.1 (b) / 2.3.5. P No.5 I No. 2.4 PWDSR - 2013-14								
		Silt in vent portion	Cum	1	180.00	0.60	0.75	81.00		
		For culverts	Cum	2	7.00	2.00	0.75	21.00		
		(BR+A/Wtg) (Rs.140.50+11.24)						102.00	151.70	15473.40
3		Providing and laying in position plain cement concrete of mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM machinery, curing complete as per specifications. Specification No.KBS 4. 1,4.2 P No. 12. I no 4.3 PWDSR - 2013-14								
		SSM Drain	Cum	1	180.00	1.50	0.15	40.50		
		For culverts	Cum	2	7.00	2.00	0.15	4.20		
		(BR+A/Wtg) (Rs.3973+317.85)						44.70	4290.80	191798.76
4		Providing and constructing grabute / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications. KBS 5.1.13 Page No.26. I No.5.12 PWDSR - 2013-14								
		SSM Drain	Cum	2	180.00	0.45	0.60	97.20		

		For culverts	Cum	2	7.00	0.45	0.60	3.78		
		(BR+A/Wtg) (Rs.4096+327.70)						100.98	4423.70	446705.23
5		Providing and laying in position plain cement concrete of nominal mix M 15 with cement @ 240 kgs using 20mm and down size graded granite metal, CA @ 0.878 cum FA @ 0.459 cum and machine mixed, concrete laid in layers not exceeding 15 cms. Thick, well compacted in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.12. I N0.4.6 PWDSR - 2013-14								
		SSM Drain	Cum	2	180.00	0.45	0.10	16.20	4779.00	
		For culverts	Cum	2	7.00	0.45	0.10	0.63		
		(BR+A/Wtg) (Rs.4425.00+354.00)						16.83	4423.70	74450.87
6		Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, incluing cost of materials, labor, curing complete as per specifications. Page No.122. I No.15.3 PWDSR - 2013-14								
		SSM Drain	Sqm	2	180.00	0.75	0.6	300.00	216.00	
		For culverts	Cum	2	7.00	0.75	0.6	10.50	8.4	17929.56
		(BR+A/Wtg) (Rs74.00+5.90)				224.40		310.50	79.90	24808.95
7		Providing and laying in position reinforced cement concrete of nominal mix 1:2:4 with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, columns, piers, abutments, pillars, posts, sturts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. (excluding cost of steel, fabrication and plastering) Specification No. KBS 4.1, 4.6 Page No.12. I No.4.11 PWDSR - 2013-14						10.53	224.4	92662.80
	a	For Drain Vent Portion		1	180.00	0.45	0.13	10.13	5639.76	
		For culverts	Cum	2	7.00	0.45	0.10	6.30		
		(BR+A/Wtg) (Rs.5411.00+433.00)						16.43	5845.00	96004.13
8		Providing and laying position reinforced cement concrete covering slabs madeout of mix 1:1.50:3 with 20mm and down size granite metal mixed concrete laid in layers not exceeding 15cms vibrated including cost of materials, labor curing providing and laying in position including transportation complete as per specification. (SLAB THICKNESS OF 10CMS)								
		For drain covering (10 cms thickness)	Sqm	1	180.00	1.50		270.00	1427.15	385330.50
		For culverts (20 cms thickness)	Cum	2	7.00	1.50		21.00	2102.12	44144.52
9		Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. of size 450 x 200 x 400 mm P 24 I NO.5.29.1 PWDSR - 2013-14								
		(BR+A/Wtg) (Rs.293.00+23.45)	Nos					445.00	316.45	140820.25

10		Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plasered concrete surfaces, with materials, labour compete as per specifications. Specification No.KRBS 800.3 MORT & H Specification No.800. P No. 195, I no 24.1 PWDSR - 2013-14								
		(BR+A/Wtg) (Rs.48.00+3.85)	Sqm	1	180.00	0.30		54.00	51.84	2799.36
11		Cost of Haulage Excluding Loading and Unloading MORTH Chapter 1 (Lead chart enclosed)								
		P No.144 I Note 1 CSR of PWP & IWTD of PWDSR - 2013-14						Cum/km		
		Vide item No 1						108.00		
		Vide item No 2						72.00		
								180.00	94.82	17067.60
12		For Third Party Inspection 2 %								30000.00
13		Miscellaneous and unforessen Charges						16,143		5927.08
									Total	1500000.00

(Rupees Fifteen Lakhs only)

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.

2 The estimate is prepared as per KPWD S.R Bangalore circle for the year PWDSR - 2013-14

3 The Provisions made in the estimate are quite necessary and adequate.

4 The area comes with in the BBMP limits.

Assistant Engineer
Ward No.118

Asst. Exe. Engineer
Hebbal Sub-Dn BBMP

Executive Engineer,
Hebbal Division BBMP

Administrative Sanctioned for Rs 15,00,000-00
(Rs. Fifteen lakhs only)
is accorded under head P.O.W-13-14
Registered as Sl. No. 168 Page No. 45
Subject to conditions contained in enclosed memo
No ACC/AS/168/13-14 Dt. 30-10-13

AAO/AE TA(E) S.E/C.E A.C(E)

TECHNICALLY SANCTIONED FOR
Rs Fifteen lakhs Only
P-1771, POW-2013-14
Under
Registered as EE(H) vide No 96
Subject to conditions in enclosed memo
No TS/96/13-14 Dt. 30/10/13

JE/AE E.E(H)